

Curriculum Vitae

Charles Walter McCutchen

Born at Princeton, New Jersey on March 9, 1929

Single

BA (physics) Princeton, 1950

MS (physics) Brown, 1952

PhD (nuclear physics) Cambridge, 1957

1957-1960 Employed by Cambridge University under U. K Atomic Energy Authority contract working on electron physics.

1960-1962 Worked at Cambridge University on animal joint lubrication and on developing new kinds of microscopes. This work was partially supported by contracts with the Physics and Chemistry of Solids Sub-Department of the Physics Department of the University.

1964-1999 Research Physicist, National Institutes of Health.

1999-Present Scientist Emeritus, National Institutes of Health

Member

American Institute of Physics

Optical Society of America

American Institute of Aeronautics and Astronautics

Publications

1952 Fulbright, H. W., McCarthy, J. A. and McCutchen, C. W. Thirty channel pulse-height discriminator based on cathode ray tube. Phys. Rev. 87, 184A.

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1967 Superresolution in microscopy and the Abbe resolution limit. J. Opt. Soc. Am. 57, 1190-1192. Also in Selected Papers on Confocal Microscopy. SPIE Milestone Series, Volume MS 131, p. 80 (1996).

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- 1969 Why did Nature make synovial fluid slimy? Clin. Orthop. 64, 18-20.
- 1970 The trout tail fin: a self-cambering hydrofoil. J. Biomechanics. 3, 271-281.
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- 1970 Surface films compacted by moving water. Surface films reveal film edges. Science 170, 61-64.
- 1971 McDowell, R. S. and McCutchen, C. W. The Thoreau-Reynolds Ridge, a lost and found phenomenon. Science 172, 973.
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- 1973 A note on weeping lubrication. In "Perspectives in Biomedical Engineering." R, M. Kenedi, Ed. MacMillan pp. 109-110.
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- 1974 Optical Exxtent (sic). Applied Optics 13, 1537.
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